Name:

Enrolment No:



UPES Dehradun End Semester Examination, Dec 2023

Course: Workshop Practices Semester: I

Program: B.Tech. (Aerospace Engineering)

Course Code: MEPD1003

Time : 03 hrs.

Max. Marks: 100

SECTION A (5Qx4M=20Marks)

S. No.	Statement of question	Marks	CO
S. NO.	Explain the primary differences between hot working and cold working	Marks	CO
Q 1	processes?	4	CO1
Q 2	Describe three types of power tools commonly used in workshops.	4	CO2
Q 3	Summarize the purpose of patterns in metal casting.	4	CO2
Q 4	Identify and discuss the types of woods commonly used in carpentry.	4	CO2
Q 5	Summarize the importance of flux in arc welding.	4	CO3
	SECTION B		
	(4Qx10M=40 Marks)		
Q 6	Illustrate a detailed comparison between traditional hand tools and power	10	CO4
	tools used in workshops, highlighting their advantages and		
	disadvantages.		
Q 7	Explain the purpose of patterns in metal casting.	10	CO1
Q8	Describe the fundamental principles of arc welding.	10	CO3
Q 0	Describe various types of all average word in costing process	10	003
Q9	Describe various types of allowance used in casting process.	10	CO1
	OR		
	Explain Stress-Strain curve for mild steel under tensile loading condition.		
	SECTION-C (2Qx20M=40 Marks)		
Q10	Describe the complete process of metal casting, from the creation of	20	CO4
	patterns to the melting and pouring of metal. Discuss the role of molding		
	sand and types of molds.		
Q11	Compare and contrast arc welding and gas welding techniques in terms	20	CO3
	of their principles, equipment, and applications.		
	OR		
	Compare the differences between additive and subtractive manufacturing, emphasizing the need for additive manufacturing in today's industries.		